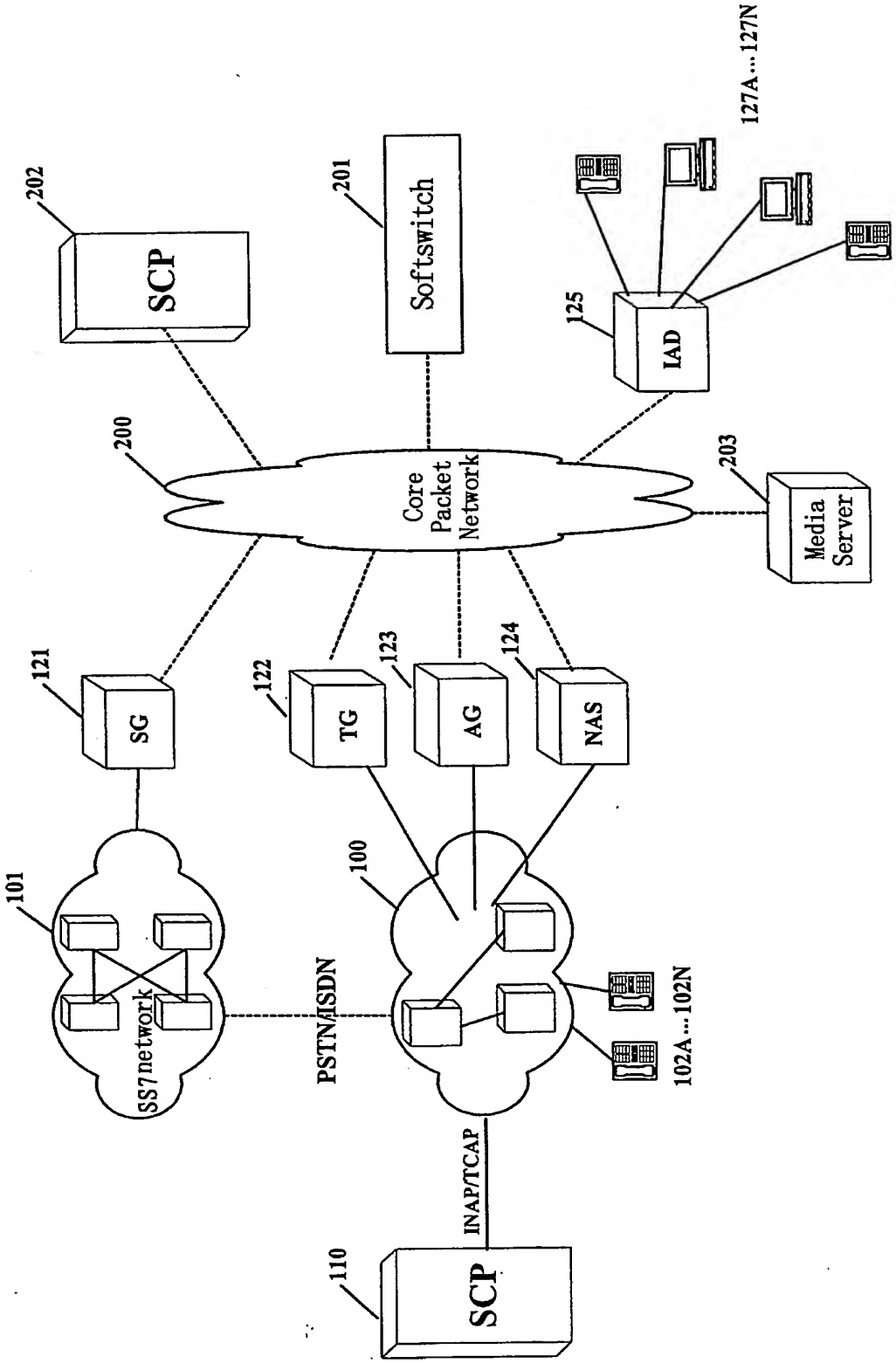
202
SCP
201
Softswitch
127A...127N
125
IAD
200
Core Packet Network
203
Media Server
121
SG
122
TG
123
AG
124
NAS
101
SS7network
100
PSTN/ISDN
102A...102N
INAP/TCAP
110
SCP

FIG1

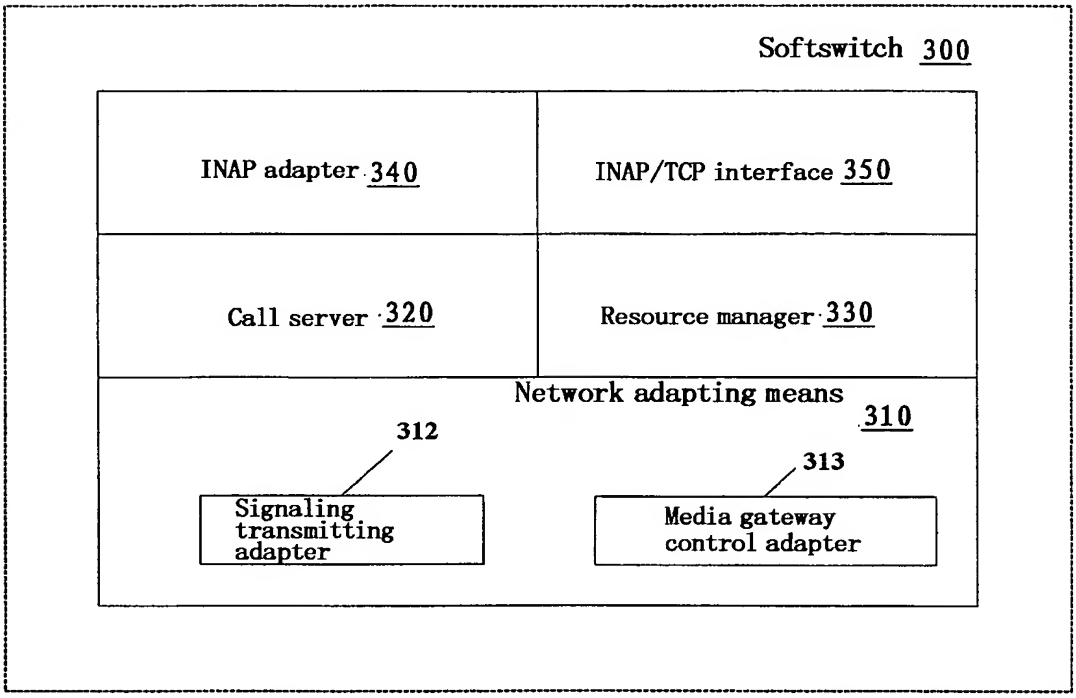
Softswitch 300
INAP adapter 340
INAP/TCP interface 350
Call server 320
Resource manager 330
Network adapting means 310
312
Signaling transmitting adapter
313
Media gateway control adapter

FIG2

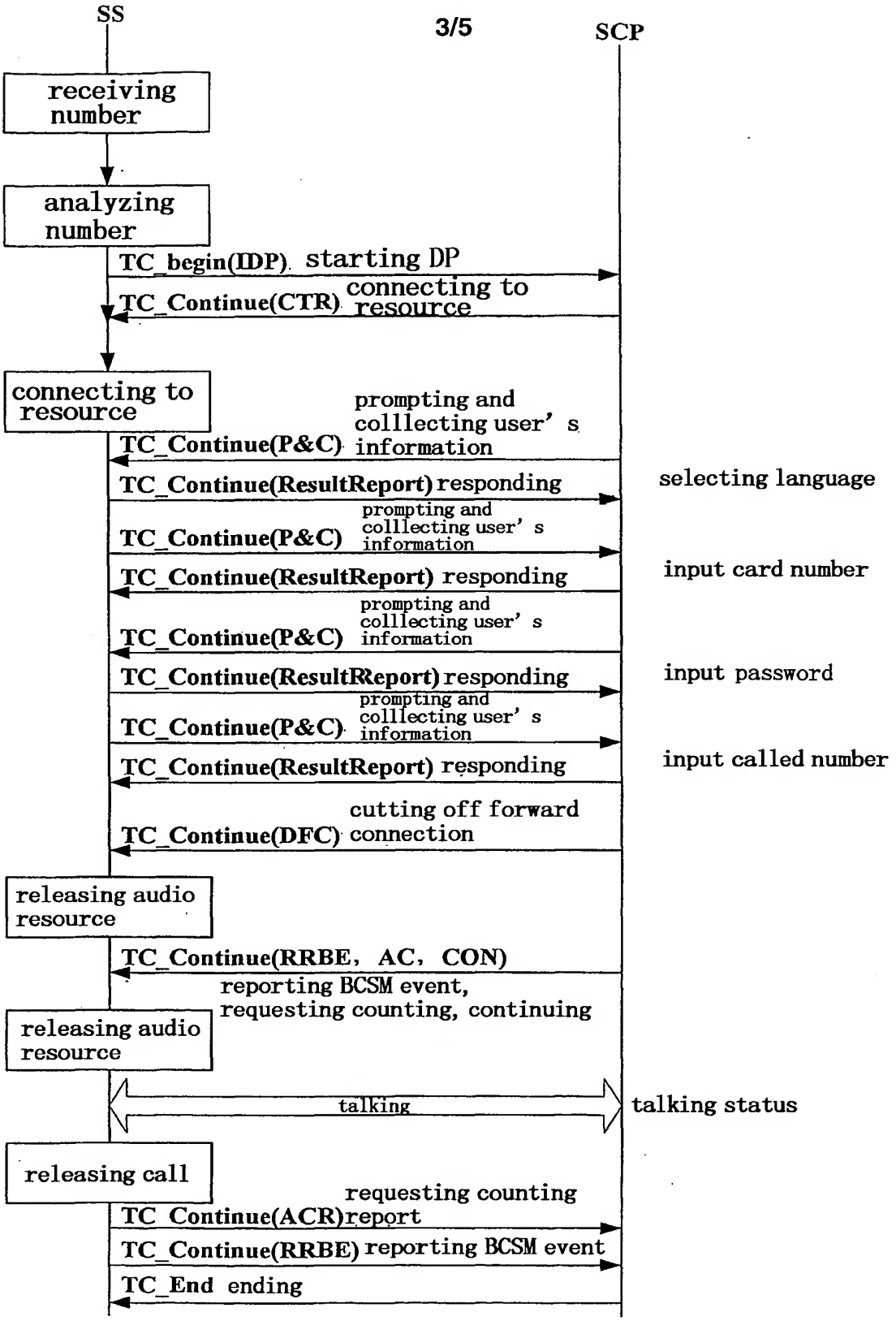
SS
SCP
receiving number
analyzing number
TC_begin(IDP) starting DP
TC_Continue(CTR) connecting to resource
connecting to resource
prompting and colllecting user' s information
TC_Continue(P&C)
TC_Continue(ResultReport) responding
selecting language
TC_Continue(P&C) prompting and colllecting user' s information
TC_Continue(ResultReport) responding
input card number
TC_Continue(P&C) prompting and colllecting user' s information
TC_Continue(ResultReport) responding
input password
TC_Continue(P&C) prompting and colllecting user' s information
TC_Continue(ResultReport) responding
input called number
cutting off forward connection
TC_Continue(DFC)
releasing audio resource
TC_Continue(RRBE, AC, CON)
reporting BCSM event, requesting counting, continuing
releasing audio resource
talking
talking status
releasing call
requesting counting report
TC_Continue(ACR)
TC_Continue(RRBE) reporting BCSM event
TC_End ending

FIG3

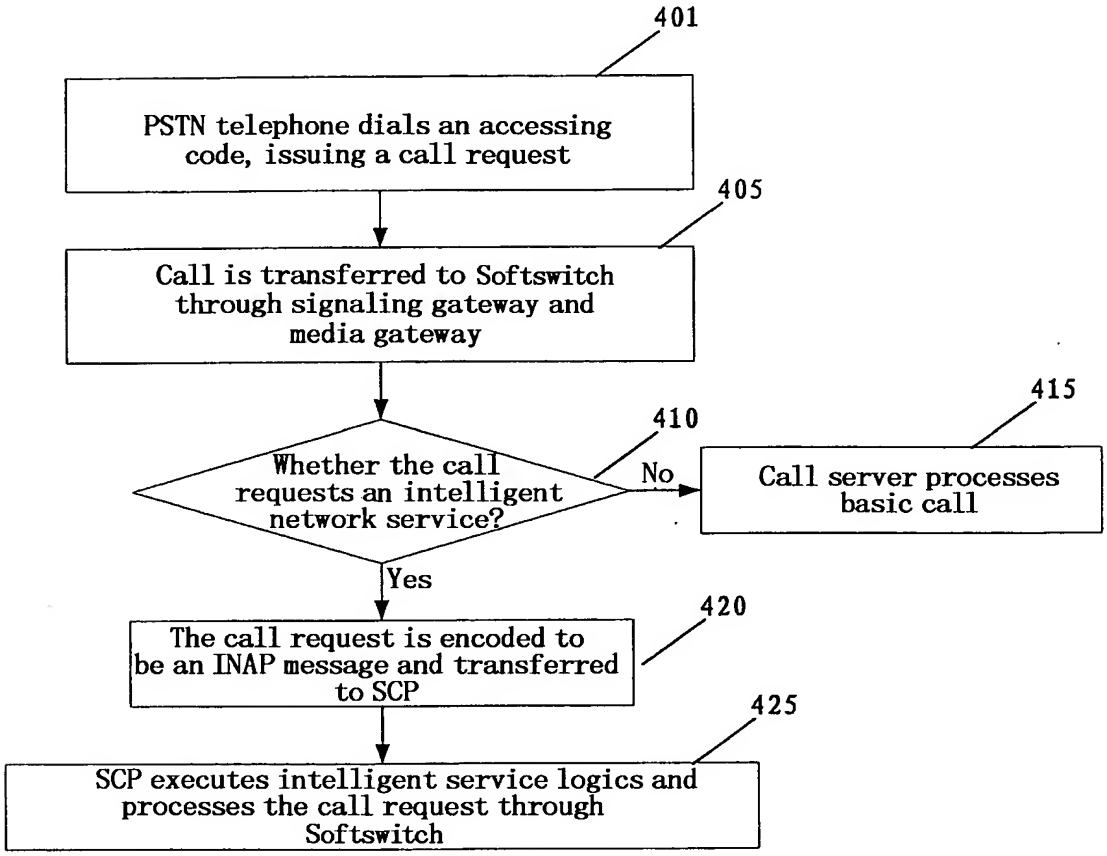
401
PSTN telephone dials an accessing code, issuing a call request
405
Call is transferred to Softswitch through signaling gateway and media gateway
410
Whether the call requests an intelligent network service?
No
415
Call server processes basic call
Yes
420
The call request is encoded to be an INAP message and transferred to SCP
425
SCP executes intelligent service logics and processes the call request through Softswitch

FIG4

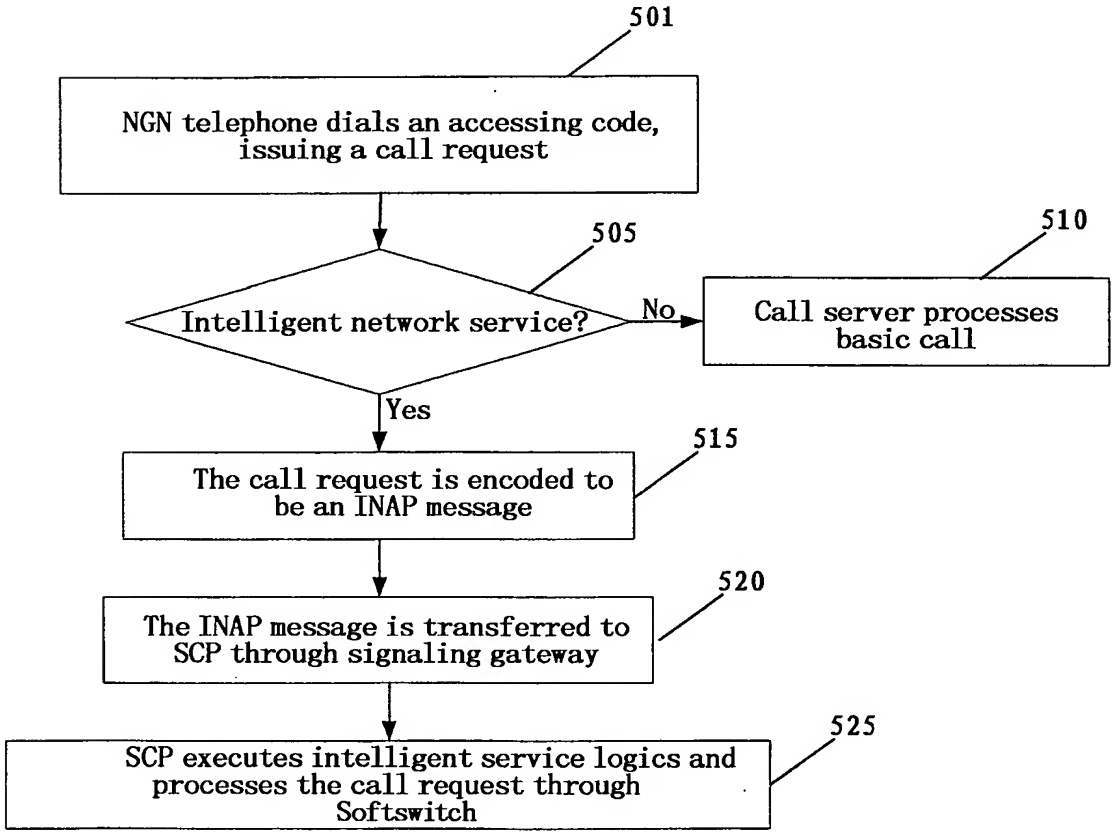
501
NGN telephone dials an accessing code, issuing a call request
505
Intelligent network service?
No
510
Call server processes basic call
Yes
515
The call request is encoded to be an INAP message
520
The INAP message is transferred to SCP through signaling gateway
525
SCP executes intelligent service logics and processes the call request through Softswitch

FIG5